-1-(Twice amended)

A composition for protecting cultivated plants comprising:

- (a) at least one herbicide; and
- (b) repellent adjuvant selected from the group consisting of silane, silicone, siliconate and mixtures thereof which are organic for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced to reduce herbicide injury to the cultivated plant by the herbicide but which is effective from the soil.

-24-(Twice amended)

A method for protecting crop plants without injuring crop plants, the steps comprising;

- (a) providing a herbicidal formulation comprising at least one herbicide admixed with a repellent adjuvant selected from the group consisting of silane, silicone, siliconate and mixtures thereof which are organic wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants to reduce herbicide injury to the crop plant by the herbicide but which is effective from the soil; and
- (b) applying the formulation to the crop plants wherein the formulation bounces off the foliage onto the soil wherein the formulation protects the crop plants without injuring the crop plants.

10

SUB

10

-25-(Twice amended)

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

(a) providing a liquid dispersion of a herbicidal formulation comprising at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass to reduce herbicide injury to the turfgrass by the herbicide but which is effective from the soil; and

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.

-44-(Amended)

The method of Claim 24 or 25 wherein the composition further comprises a monosaccharide to potentiate the effect of the herbicide in killing the weeds without decreasing tolerance of the crop plant to the herbicide.

-3-

5

Chi

10

J 9

-45-(Twice amended)

A method for applying one or more postemergence

Cancelled

herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

Cours

- (a) providing a composition comprising at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants to reduce herbicide injury to the crop plant by the herbicide but which is effective from the soil; and
- (b) applying the formulation to the plants wherein the formulation bounces off the foliage onto the soil wherein the formulation controls the weeds without injuring the crop plant.

CH

5

-57-(Twice amended)

A composition for protecting cultivated plants comprising:

- (a) an acetochlor herbicide;
- (b) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-

N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-2H-1,4-benoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azapiro-(4,5)-decane, 2,2-dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4,4]nonane, and combinations thereof; and

organosiliconate for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced to reduce herbicide injury to the cultivated plant by the herbicide but which is effective from the soil.

-58-/Twice amended)

A composition for protecting cultivated plants comprising:

(a) one or more of a herbicide selected from the group consisting of nicosulfuron, glyphosate, primisulfuron, chlorimuron, glufosinate-ammonium salt, linuron, linuron and chlorimuron ethyl, thifensulfuron, imazethapyr, imazaquin, acetochlor, alachlor, Sethyldipropylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof; and

5

15

10

Cylin,

(b) a repellent adjuvant which is an organosiliconate for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced to reduce herbicide injury to the cultivated plant by the herbicide but which is effective from the soil.

-71-(New)

(4)

5

10

15

20

A composition for protecting cultivated plants comprising:

- (a) at least one herbicide;
- safener selected (b) f#com the group consisting of 4-(dichloroacetyl)-1-oxo $\sqrt{4}$ -azaspiro-(4,5)-2,2-dichloro-N, N-di-2-propenylacetamide, decane, dichloroacetyl-5-(2-furanyl)-2,2-d/methyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacety/oxazolidine, 2,2dimethyl-5-phenyl-N-dichloroacet//1 oxazolidine, N, Ndially1-2,2-dichloroacetamide, 2,1/2-dimethy1-5(2-furany1)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-Ndichloroacetyl oxazolidin∉, 4-(dichloroacetyl)-3,4dihydro-3-methyl-2H-1/,4-benoxazine, (dichloroacetyl) -2, 2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-A-azapiro-(4,5)-decane, dichloro-1-(1,2,3/4-tetrahydro-1-methyl-2isoquinolyl)ethanone, &is/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4tetrahydroquinaldin/e, 1,5-bis(dichloroacetyl)-1,5-

diazacyclononane, 1-(dichloroacetyl)-1azaspiro[4,4]nonane, and combinations thereof; and

(c) repellent adjuvant selected from the group consisting of silane, silicone, siliconate and mixtures thereof which are organic for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

25

5

10

-72 - (New)

A composition for protecting cultivated plants comprising:

- (a) at least one herbicide; and
- (b) repellent adjuvant which is an aqueous solution of an organosidiconate selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate, and mixtures thereof for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

-73- (New)

The composition of Claim 72 wherein the repellant adjuvant is sodium methyl siliconate.

The composition of Claim 71 wherein at least one of the herbicide is an acetanilide selected from the group consisting of metolachlor and acetochlor and the safener is selected from the group consisting of benoxacor, flurilizole, dichlormid and 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,7)-decane.

5

5

10

5

-75-(New)

In a method for protecting crop plants including applying a herbicide formulation that has herbicidal activity from soil, the improvement comprising using as the herbicidal formulation a homogenous aqueous dispersion of a composition comprising:

- (a) at least one herbicide; and
- (b) repellent adjuvant which is an aqueous solution of sodium methyl siliconate for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

-76-(New)

A method for protecting crop plants without injuring crop plants, the steps comprising:

- (a) providing a herbicidal formulation comprising
- (i) at least one herbicide admixed with a repellent adjuvant selected from the group

consisting of silane, silicone, siliconate and mixtures thereof which are organic wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants and

10

15

20

25

30

(ii) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-2,2-dichloro-N, N-di-2-propenylacetamide, dichloroacetyl-5-(2-furanyl)-2/,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N, Ndially1-2,2-dichloroacetamide, 2,2-dimethy1-5(2-furany1)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)oxazplidine, 2,2-spirocyclohexy-N-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4dichloroacetyl dihydro-3-methyl/2H-1,4-benoxazine, 3 - [3 -(dichloroacetyl) -2, 2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl) - 1 - oxa - 4 - azapiro - (4, 5) - decane,dichloro-1-(1/2, 2, 3, 4-tetrahydro-1-methyl-2isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylp‡perazine, N-(dichloroacetyl)-1,2,3,4tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5diazacyclononane, 1-(dichloroacetyl)-1azaspiro[4/4]nonane, and combinations thereof; and

(b) applying the formulation to the crop plants wherein the formulation bounces off the foliage onto the soil wherein the formulation protects the crop plants without injuring the crop plants.

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

(a) providing a liquid dispersion of a herbicidal formulation comprising

(i) at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass and

(ii) a saferer selected from the group consisting of 4-(dichloroacetyl)-1-0x0-4-azaspiro-(4,5)-2,2-dichloro-N, N-di/2/propenylacetamide, decane, dichloroacetyl-5-(2-furanyl $\sqrt{-2}$, 2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, dially1-2,2-dichloroacetamide, 2,2-dimethy1-5(2-furany1)-N-dichloroacetyl oxazoli⁄dine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-Ndichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4dihydro-3-methyA-2H-1,4-benoxazine, 3 - [3 -(dichloroacetyl)-2/2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)/1-oxa-4-azapiro-(4,5)-decane,dichloro-1-(1/2,2,3,4-tetrahydro-1-methyl-2isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylp#perazine, N-(dichloroacetyl)-1,2,3,4tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-

15

5

20

diazacyclononane, 1-(dichloroacetyl)-1azaspiro[4,4]nonane, and combinations thereof; and

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.

-78- (New)

The method of Claim 77 wherein the organosiliconate has the formula

 $(RSiO_{3/2})_a/X_2O)_b$

wherein X denotes sodium or potassium, and R is methyl, ethyl, or propyl, and the fatio of Si:X is about 1:1.

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

79- (New)

(a) providing a liquid dispersion of a herbicidal formulation comprising at least one herbicide admixed with a repellent adjuvant which is an aqueous solution of an organosiliconate selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate, and mixtures thereof wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass; and

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the

5

30

soil wherein the formulation inhibits growth of the weed.

-80-(New)

The method of Claim 79 wherein the repellent adjuvant consists essentially of 32 weight percent of sodium methyl siliconate and 67 weight percent of water.

-81- (New)

The method of Claim 76 wherein the herbicide is metolachlor and the safener is benoxacor.

-82-(New)

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

(a) providing a liquid dispersion of a herbicidal formulation comprasing

(i) at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass,

(i/i) an acetanilide herbicide which is metolachlor, and

/(iii) a safener which is benoxacor;

and

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.

5 .

10

A method for protecting crop plants without injuring crop plants, the steps comprising:

(a) providing a herbicidal formulation comprising

5

(i) at least one/herbicide admixed with a repellent adjuvant selected from the group consisting of silane, silicone, siliconate and mixtures thereof which are organic wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants and

5...

(ii) an oil based adjuvant selected from the group consisting of a crop oil concentrate, a free fatty acid, an esterified and saponified oil and combinations thereof; and

15

10

(b) applying the formulation to the crop plants wherein the formulation bounces off the foliage onto the soil wherein the formulation protects the crop plants without injuring the crop plants.

-84-(New)

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

- (a) providing a liquid dispersion of a herbicidal formulation comprising
 - (i) at least one herbicide admixed

with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turggrass and

10

(ii) an oil-based adjuvant selected from the group consisting of a crop oil concentrate, a free fatty acid, an esterified and saponified oil and combinations thereof; and

15

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.



The method of Claim 83 wherein at least one of the herbicide is selected from the group consisting of cyclohexanidione, aryloxyphenoxy, imidazolinone, and sulfonylurea herbicides

-86- (New)

The method of Claim 84 wherein at least one of the herbicide is selected from the group consisting of cyclohexanidione, aryloxyphenoxy, imidazolinone, and sulfonylurea herbicides.

-87 - (New)

A method for applying one or more postemergence herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

(a) providing a composition comprising at least one herbicide admixed with a repellent adjuvant which is an aqueous solution of an organosiliconate which has the formula

$$(RSiO_{3/2})_a(X_2O)_b$$

wherein X denotes sodium or potassium, and R is methyl, ethyl, or propyl, and the ratio of Si:X is about 1:1 wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants; and

(b) applying the formulation to the plants wherein the formulation bounces off the foliage onto the soil wherein the formulation controls the weeds without injuring the crop plant.

-88- (Mew)

A method for applying one or more postemergence herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

(a) providing a composition comprising at least one herbicide admixed with a repellent adjuvant selected from the group consisting of an aqueous solution of sodium methyl siliconate and an aqueous solution of N-(2-aminoethyl)-3-aminopropyltrimethoxysilane and methyltrimethoxysilane wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants; and

10

5

5

10

(b) applying the formulation to the plants wherein the formulation bounces off the foliage onto the soil wherein the formulation controls the weeds without injuring the crop plant.

-89- (New)

A method for applying one of more postemergence herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

(a) providing a composition comprising

(i) at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants and

(ii) | a safener selected from the group consisting of 4-(dichloroacety)/-1-oxo-4-azaspiro-(4,5)-2,2-dichloro-N,N-di-2-propenylacetamide, dichloroacetyl-5-(2-#uranyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N, Ndially1-2,2-dichlo/coacetamide, 2,2-dimethy1-5(2-furany1)-N-dichloroacetyl pxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacety1 oxazolidine, 2,2-spirocyclohexy-Noxazolidine, 4-(dichloroacetyl)-3,4dichloroacetyl/ dihydro-3-methyl-2H-1,4-benoxazine, 3 - [3 -(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroac¢tyl)-1-oxa-4-azapiro-(4,5)-decane, 2,2-

20

15

5

10

dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4,4]nonane, and combinations/thereof; and

25

30

5

10

15

(b) applying the formulation to the plants wherein the formulation bounces off the foliage onto the soil wherein the formulation controls the weeds without injuring the crop plant.

-90-(New)

A composition for protecting cultivated plants comprising:

- (a) one or more of a herbicide selected from the group consisting of nicosulfron, glyphosphate, primisulfron, chlorimuron, glufosinate-ammonium salt, linuron, linuron and chlorimuron ethyl, thifensulfuron, imazethapyr, imazaquin, acetochlor, alachlor, Sethyldipropylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof;
- (b) a safener selected from the group consisting of 4 (dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-

N-dichloroacetyl oxazolidine, 2,2-dimethyl-5/2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-Ndichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4dihydro-3-methyl-2H-1,4-benoxazine, 3 - [3 -(dichloroacetyl) -2, 2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azapiro-(4/,5)-decane, dichloro-1-(1,2,3,4-tetrah/ydro-1-methyl-2isoquinolyl)ethanone, cis/trans-1/4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4tetrahydroquinaldine, 1,5-bis (dichloroacetyl)-1,5diazacyclononane, 1√(dichloroacetyl)-1azaspiro[4,4]nonane, and combinations thereof; and

20

25

30

5

10

(c) a repellent adjuvant which is an organosiliconate for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

-91-(New)

A composition for protecting cultivated plants comprising:

- (a) an/acetochlor herbicide;
- (b) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyloxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-

N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2/thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-4-(dichlor, dacetyl)-3,4dichloroacetyl oxazolidine, dihydro-3-methyl-2H-1,4-benoxazi/ne, (dichloroacetyl) -2, 2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl) -1-oxa-4-azapiro-(4, ₺) -decane, dichloro-1-(1,2,3,4-tetrahy/dro-1-methyl-2isoquinolyl) ethanone, cis/trans-1, #-bis(dichloroacetyl) -2,5-dimethylpiperazine, N-(di/chloroacetyl)-1,2,3,4tetrahydroquinaldine, 1,5-b/is(dichloroacetyl)-1,5diazacyclononane, $1 \neq (dichloroacetyl) - 1$ azaspiro[4,4]nonane, and combinations thereof; and

15

20

25

30

5

(c) a repellent adjuvant which is an aqueous solution of an organosaliconate which has the formula

 $(R$i9_{3/2})_a(X_20)_b$

wherein X denotes sodium or potassium, and R is methyl, ethyl, or propyl, and the ratio of Si:X is about 1:1 for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

-92- (New)

A composition for protecting cultivated plants comprising:

(a) one or more of a herbicide selected from the group consisting of nicosulfron, glyphosphate, primisulfron, chlorimuron, glufosinate-ammonium salt, linuron, linuron and chlorimuron ethyl, thifensulfuron,

imazethapyr, imazaquin, acetochlor, alachior, S-ethyldipropylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof; and

(b) a repellent adjuvant which is an aqueous solution of an organosiliconate which has the formula

 $(RSiO_{3/2})_a (X_2O)_b$

wherein X denotes sodium or potassium, and R is methyl, ethyl, or propyl, and the ratio of Si:X is about 1:1 for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

-9/3 - (New)

The composition of Claim 92 further comprising a safener.

-94-(New)

The composition of Claim 93 wherein the safener 4selected from the group consisting of (dichloroacetyl)/-1-oxo-4-azaspiro-(4,5)-decane, dichloro-N, N-di/-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2/2-dimethyl-oxazolidine, 2,2,5-trimethyl-Ndichloroacet/yloxazolidine, 2,2-dimethyl-5-phenyl-Ndichloroac/etyl oxazolidine, N, N-dially1-2, 2dichloroa/cetamide, 2,2-dimethyl-5(2-furanyl)-Ndichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-Ndichlordacetyl 2,2-spirocyclohexy-Noxazolidine, dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-

5

10

dihydro-3-methyl-2H-1,4-benoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azapiro-(4,5)-decane, 2,2-dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinaldine, 1,5-bis/dichloroacetyl)-1,5-diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4,4]nonane, and combinations thereof.

15

20

5

-95- (New)

The composition of Claim 93 wherein the safener is 2,2,5-trimethyl-N-dichloro-acetyloxazolidine.

-96- (New)

The composition of Claim 93 wherein the herbicide is halosulfuron and the safener is 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyloxazolidine.

-97-(New)

The composition of Claim 90 wherein the herbicide is acetochlor and the organosiliconate is selected from the group consisting of sodium methyl siliconate potassium methyl siliconate, and mixtures thereof.

-98-(New)

The composition of Claim 90 wherein the

organosiliconate is selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate, and mixtures thereof.

-99- (New)

A composition for protecting cultivated plants comprising:

- (a) one or more of a herbicide selected from the group consisting of nicosulfuron, glyphosate, primisulfuron, chlorimuron, glufosinate-ammonium salt, linuron, linuron and chlorimuron ethyl, thifensulfuron, imazethapyr, imazaquin, acetochlor, alachlor, Sethyldipropylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof;
 - (b) a safener; and
- (c) a repellent adjuvant which is an aqueous solution of an organosiliconate selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate and mixtures thereof for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

-100-(New)

The composition of Claim 99 wherein the safener is selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-

10

(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-t/rimethyl-N-2,2-dimethy1/-5-phenyl-Ndichloroacetyloxazolidine, dichloroacetyl oxazolidine, N, N/dially1-2,2dichloroacetamide, 2,2-dimethyl-5/(2-furanyl)-Ndichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-Ndichloroacetyl oxazolidine, 2, 2-spirocyclohexy-Ndichloroacetyl oxazolidine, 4- (dichloroacetyl) -3,4dihydro-3-methyl-2H-1,4-benoxazine, 3 - (3 -(dichloroacetyl) -2, 2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azapifo-(4,5)-decane, dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2isoquinolyl)ethanone, cis/tra/ns-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, /N-(dichloroacetyl)-1,2,3,4- $/1, \mathcal{S}$ -bis (dichloroacetyl) -1, 5tetrahydroquinaldine, diazacyclononane, /// 1-(,dichloroacetyl)-1azaspiro[4,4]nonane, and combinations thereof.

5

10

15

20

-101-(New)

The composition of Claim 99 wherein the herbicide is isocxaflutole and the safener is 2,2,5-trimethyl-N-dichloro-acetyloxazolidine.

-102-(New)

The composition of Claim 99 wherein the herbicide is halosulfuron and the safener is 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyloxazolidine.

-103-(New)

The composition of Claim 99 wherein herbicide is acetochlor and the safener is/selected from group consisting of 4-(dichloroacetyl)-1-oxo-4the azaspiro-(4,5)-decane, 2,2-dighloro-N,N-di-2propenylacetamide, 3-dichloroacet 1-5-(2-furanyl)-2,2dimethyl-oxazolidine, 2,2,5-trimethyl-Ndichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-Ndichloroacetyl oxazolid/ine, N, N-diallyl-2, 2dichloroacetamide, 2,2/dimethyl-5(2-furanyl)-Ndichloroacetyl oxazolidine/ 2,2-dimethyl-5(2-thienyl)-Ndichloroacetyl oxazol/idine, 2,2-spirocyclohexy-Ndichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4dihydro-3-methy1/2H-1,4-benoxazine, 3-[3-(dichloroacetyl) -2/2/dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1/oxa-4-azapiro-(4,5)-decane, 2,2dichloro-1-(1/2, 3, 4/tetrahydro-1-methyl-2isoquinolyl) ethanone, \(\vec{a} is/trans-1, 4-bis (dichloroacetyl) -2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5diazacyclónonane, 1-(dichloroacetyl)-1azaspiro [4,A] nonane, and combinations thereof.

5

10

15

20

5

-104-(New)

A composition for protecting cultivated plants comprising:

(a) one or more of a herbicide selected from the group consisting of nicosulfuron, glyphosate, primisulfuron, chlorimuron, glufosinate-ammonium salt,

linuron, linuron and chlorimuron ethyl, thifensulfuron, imazethapyr, imazaquin, acetochlor, alachlor, Sethyldipropylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof; and

10

(b) a repellent adjuvant which is an aqueous organosiliconate solution consisting essentially of 32 weight percent of sodium methyl siliconate and 67 weight percent of water for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

-6

15

-105 (New)

The composition of claim 104 further comprising a safener.

[/]106- (New)

The composition of Claim 105 wherein the safener is selected/from the group consisting of 4-(dichloroacetyl) $-1-\phi x o -4-azaspiro-(4,5)-decane$, dichloro-N, N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-Ndichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-NdichloroacetyA oxazolidine, N, N-dially1-2,2dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-Ndichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-Ndichloroace#yl oxazolidine, 2,2-spirocyclohexy-Ndichloroace/tyl oxazolidine, 4-(dichloroacetyl)-3,4dihydro-/3-methyl-2H-1,4-benoxazine,

10

(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4(dichloroacetyl)-1-oxa-4-azapiro-(4,5)-decane, 2,2dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5diazacyclononane, 1-(dichloroacetyl)-1azaspiro[4,4]nonane, and combinations thereof.

-107-(New)

The composition of Claim 105 wherein the herbicide is isooxaflutole and the safener is 2,2,5-trimethyl-N-dichloro-acetyloxazolidine.

108- (Mew)

The composition of Claim 105 wherein the herbicide is halosulfuron and the safener is 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyloxazolidine.

Orr

15